

2011 AccuChek Competency

For all AccuChek *Inform* operators trained
prior to August 1, 2011

(Only previously trained caregivers should complete this module)

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Purpose

- To provide resource material and updates related to AccuChek point of care glucose testing for trained caregivers
- To assess the cognitive skills of the AccuChek operators as part of the annual competency
- To meet state and federal regulatory requirements

2011 AccuChek Competency

Objectives

- Explain how to identify a patient in order to maximize patient safety and expedite result reporting
- Describe the process for scanning the strip and control bottles for lot number verification
- Describe the documentation of critical value notification in EPIC OneChart by unlicensed personnel
- Discuss the CDC and FDA requirements for cleaning POCT devices between patients
- Describe the process for reporting broken or unusable AccuChek devices or cases

Scanning Bar Coded Armbands

To scan the patient's armband, simply press the Scan button on the top right corner of the screen and point the red laser light at the bar code from a distance of 3 to 4 inches.

Caution: Never look directly into the laser beam or point it at someone's eyes.



Avoid Patient ID Errors

Follow these recommendations to avoid misidentifications:

Unregistered newborn:

Use the Mother's CSN number and add AAA to the front of the number for a single birth, BBB for 2nd infant, CCC for 3rd infant, etc. **DO NOT use the HAR number or MRN**

Unregistered ED or Radiology patient:

Use the Alphanumeric Screen to enter the patient's **LAST NAME AND FIRST NAME** - Example: Johnson Henry

Check your patient ID on the
AccuChek screen **BEFORE** you
continue with the test

Self-Testing and Co-worker Testing

- Scan your POCT badge for the operator ID as usual
- *Manually enter your own EMPI ID# into the patient screen – the ID in the operator screen and patient screen should match. (Due to changes made for strip and QC lot verification, scanning your badge for this step will no longer work)*
 - *This is true even if you are testing a co-worker.*
 - You *MUST* enter the comment code "Training Sample" after the test
 - Results tagged this way will not cross to the medical record
 - DO NOT scan any other barcode to gain access to the meter.



Remember to send ill family members to the ED if checking their glucose.

Opening New Control Bottles

Once opened, a bottle of control solution can be used for up to **3 months (90 days)**; discard after **3 months (90 days)** of use or the manufacturer's printed expiration date, whichever occurs first.

When you open a new bottle of control solution, you must **date it** and also write the new "Discard" date on it.

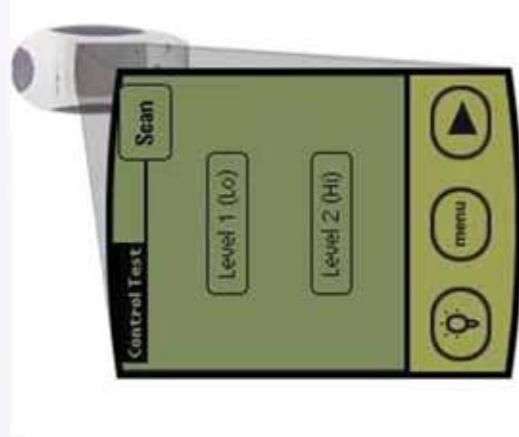


Record the "Open" and "Discard" dates on the bottles.

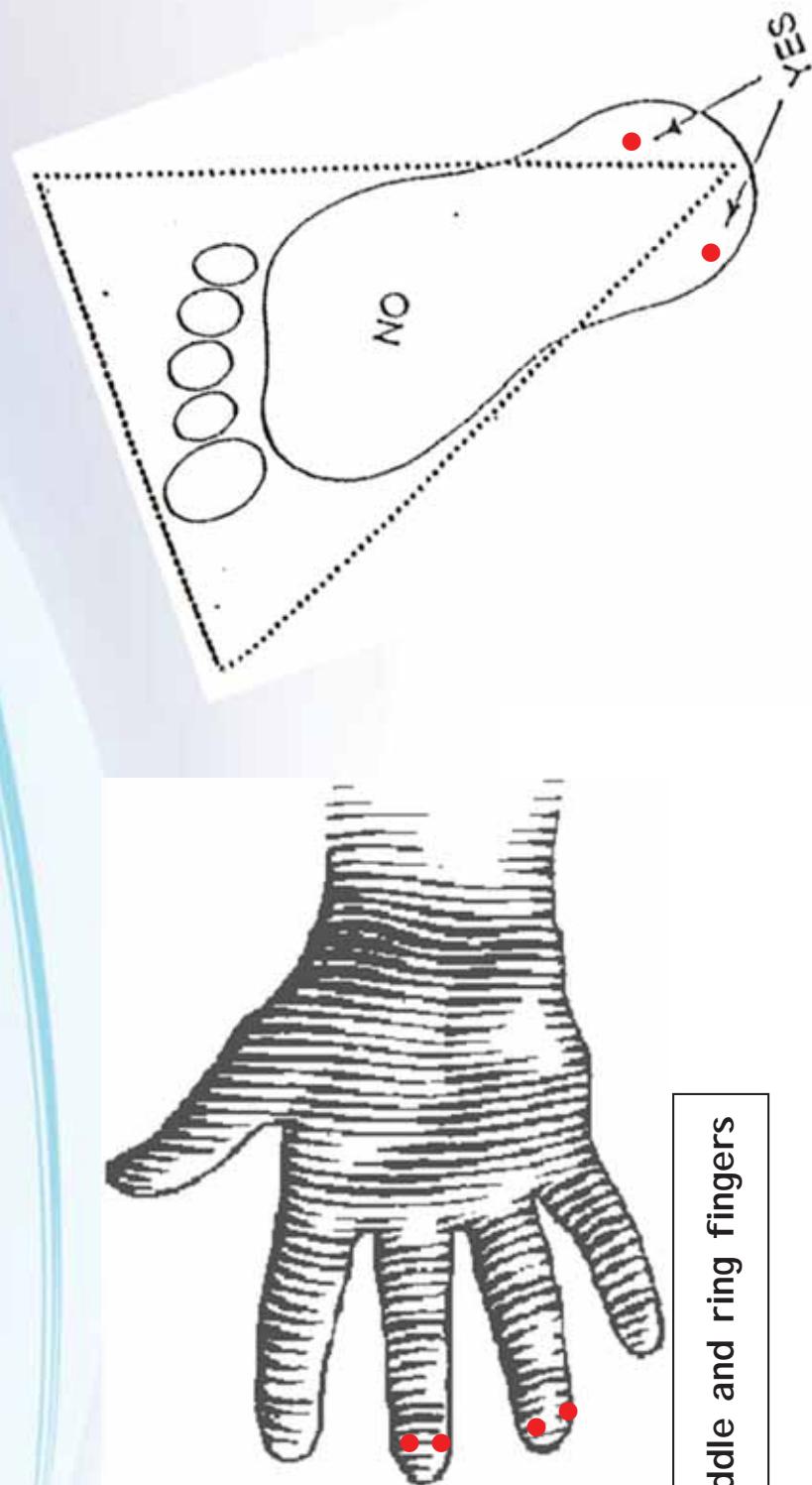
Verify Strip Lots and Control Lots

**Change is effective
Nov. 1st**

To ensure that the correct strip, code key and control lot information is being recorded, scanning the strip and control bottles will be required to verify them when performing glucose testing.



Recommended Sites for Capillary Draws



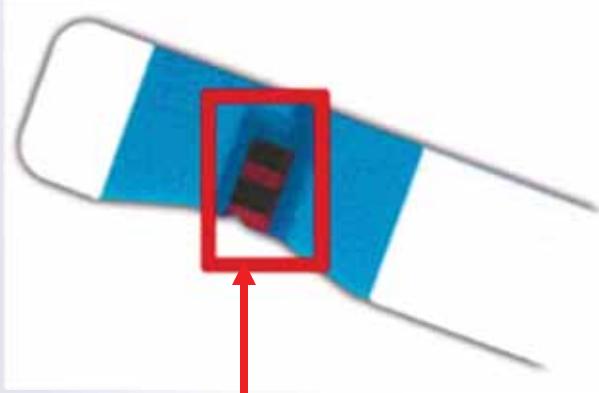
Outer aspects of a newborn's heel

Middle and ring fingers

**Wipe off the first drop of blood
and apply the 2nd drop to the strip**

Filling the Comfort Curve Test Strip

You must visually look at the strip to make sure the yellow window is full



If the window is not completely **FULL**, the result **will be compromised and inaccurate**

Interferences with AccuChek Test Strips

BE ALERT when treating patients with unknown therapy histories
as these substances may cause inaccurate glucose results

IV Solutions containing Maltose i.e. ADEPT, EXTRANEAL, Octagam 5%, HepaGam B,	Used as a binding agent in some IV solutions	Elevates glucose Does NOT include dietary maltose
Xylose and Galactose	Used for malabsorption tests	Elevates glucose for 24 hrs or until renal clearance is achieved
Orencia (Abatacept)	Used for the treatment of Rheumatoid Arthritis	Elevates glucose for 24 hrs or until renal clearance is achieved
Acetaminophen	Therapeutic Level: 10-30 ug/mL	Elevates glucose when acetaminophen is greater than 80 ug/mL
Elevated Uric Acid	Normal Ranges: Males: 3.2-7.0 mg/dL Females: 2.4-5.7 mg/dL	Elevates glucose when uric acid is greater than 10 mg/dL

Notification of “Critical Blood Glucose” Charting in EPIC



This is required by **All** CNAs and non-licensed staff that perform AccuChek glucomes

Documentation **MUST** include the following:

- Date & Time (this is the electronic notification time)
- Actual Adult Critical Blood Glucose Value (<50 mg/dL or > 450 mg/dL) **displayed on the meter**
- Name of individual who performed AccuChek (your electronic signature)
- Name of the Licensed Nurse who you Notified

Special Note: Do NOT double chart in Edit/Enter Results! Values will display on LAB tab when the meter is docked.

Notification of “Critical Blood Glucose” Charting in EPIC - #1



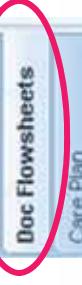
2.  CNA Assessment

Note: You may not have as many Activity Tabs as displayed here

Reason for Communication	Provider Name	Method of Communication	Response	Notification Time	Shift Event	Order ID	Test name	Result
07/06/11	0936 0946	Critical lo...	3.					

3.  Reason for Communication

4.  Reason for Communication

1. Select the “Doc Flowsheets” from the Activity tabs
2. Select the CNA Assessment screen
3. Reason for Communication: Select “*Critical Lab Value*”
 4. This will create 3 new free text fields to open for:
 - Order ID - Link the corresponding poc glucose order ID to this notification
 - The test name - type in “glucose”
 - The critical result - ($<50 \text{ mg/dL}$ or $> 450 \text{ mg/dL}$)

Enter result as displayed on the meter

Notification of “Critical Blood Glucose” Charting in EPIC - #2

Find the corresponding order from the Lab tab in Chart Review

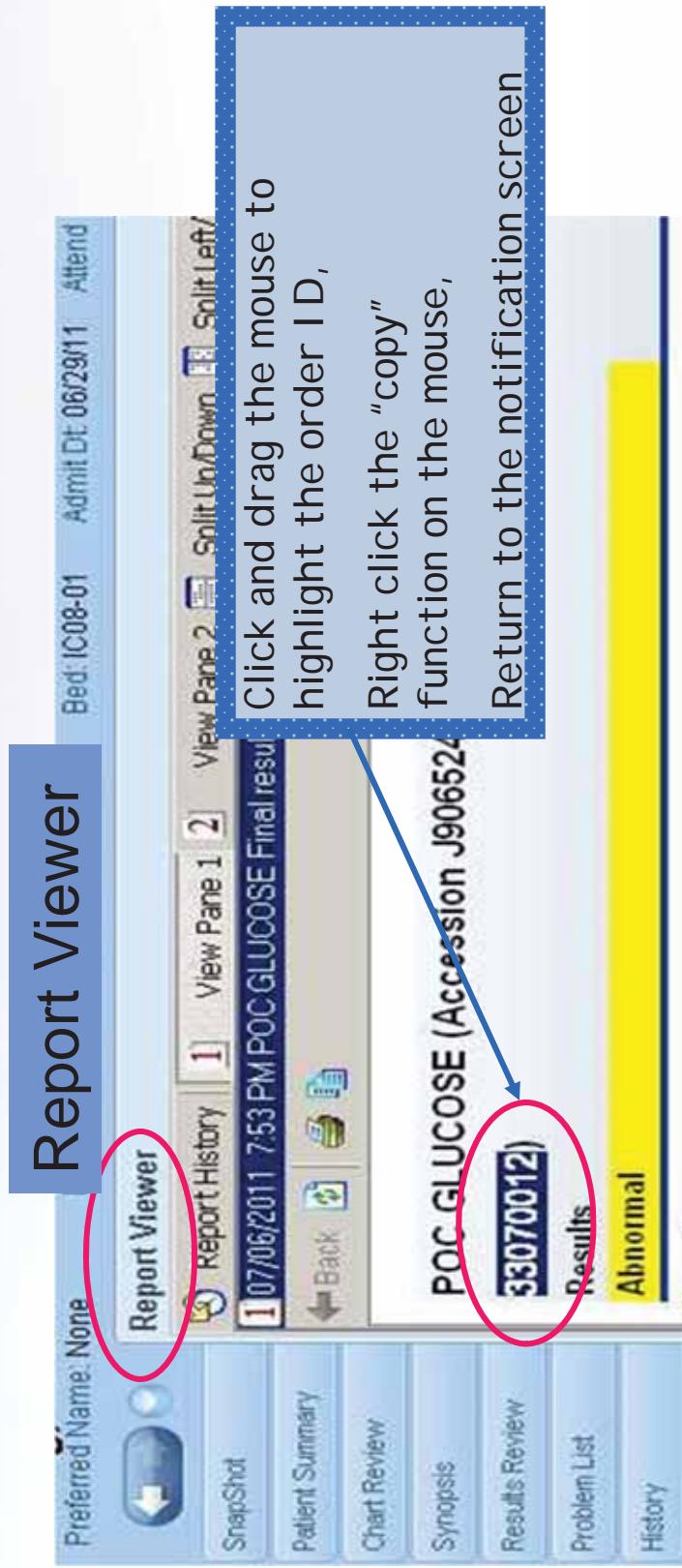
The screenshot shows the EPIC interface with the following steps highlighted:

1. Go to Chart Review
2. Select the Lab tab
3. Find the corresponding POC Glucose order and double click on it
4. The Report Viewer will open

Date/Time	Test
07/07/2011 8:48 AM	RENAL PANEL
07/07/2011 7:05 AM	BASIC METABOLIC PANEL
07/07/2011 7:05 AM	ESTIMATED GFR
07/07/2011 2:30 AM	COMPLETE BLOOD COUNT
07/07/2011 2:30 AM	PROTHROMBIN TIME (PTINR)
07/07/2011 2:30 AM	RENAL PANEL
07/07/2011 2:30 AM	ESTIMATED GFR
07/06/2011 7:53 PM	POC GLUCOSE
07/06/2011 7:05 PM	BASIC METABOLIC PANEL

Notification of “Critical Blood Glucose” Charting in EPIC - #3

Highlight and copy the order ID from the upper left corner of the screen



Notification of “Critical Blood Glucose” Charting in EPIC - #4

Paste the order ID # into the Notification screen

CNA Assessment	WNL Signs	Assessment	Intake/Output	IV Assessment
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Order No.: <input checked="" type="checkbox"/> Reason for Communication	<input checked="" type="checkbox"/> Provider Name	<input checked="" type="checkbox"/> Provider Role	<input checked="" type="checkbox"/> Method of Communication	<input checked="" type="checkbox"/> Response
Device: <input checked="" type="checkbox"/> nt	<input checked="" type="checkbox"/> nt	<input checked="" type="checkbox"/> Response	<input checked="" type="checkbox"/> Notification Time	<input checked="" type="checkbox"/> Shift Event
ntent: <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
nteraction: <input checked="" type="checkbox"/> Critical Lab Provider Noti	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Order ID	Test name	Result	Transportation	

In the notification screen,

Place the cursor in the order ID field and

Right click to “paste” the number into the Order ID field

Notification of “Critical Blood Glucose” Charting in EPIC - #5

Complete the rest of the fields before leaving the screen.

Provider No
Critical lab...
Dr. Smith
Attending...
Face to f...
In depart...
1039
Transportati
Reason for Communication
Provider Name
Provider Role
Method of Communication
Response
Notification Time
Shift Event

A report will be generated using the completed fields to demonstrate compliance for regulatory purposes

**Notification Documentation compliance
will be required to start on or before
Nov. 1st**

Infection Control Requirements from the CDC/FDA

Cleaning and Disinfecting the Meter

If meters are shared among patients, disinfect the meter ***between each patient test*** per the CDC/FDA and manufacturer's instructions.

For general disinfection of the meter:

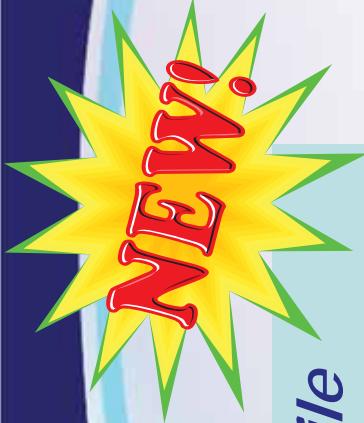
- remove the meter from the base
- use a ***Super Sani Cloth (purple lid)*** and squeeze out the excess solution.
- lay meter on a flat surface and wipe it thoroughly, avoiding the strip port, the code key slot, base connector and edge of the touch-screen.
- allow the meter to air dry for a minimum of ***2 minutes***.
- dry the meter with a soft cloth or gauze and visually verify that no solution is seen in the base connector before placing it in the base unit.

For general cleaning: All parts of the AccuChek *Inform* meter and base unit may be cleaned with a soft cloth dampened (not wet) with

- hospital approved disinfectant
- 70% alcohol or
- warm soapy water



Infection Control Requirements from the CDC/FDA



Disinfection for *Clostridium difficile*

- When patients have diarrhea and/or *Clostridium difficile* infection, the meter must be cleaned with a 1:10 sodium hypochlorite solution.
- *DISPATCH* disinfectant towels may be used
 - Squeeze out the excess solution and wipe it thoroughly, avoiding the strip port, the code key slot, base connector and edge of the touch-screen.
 - Allow the monitor to dry for a minimum of **5 minutes** to ensure *Clostridium difficile* spores are killed.
 - Dry the monitor with a soft cloth or gauze and visually verify that no solution is seen in the base connector before placing it in the base unit.



The fastest EPA-registered kill time for *C. difficile* spores*

DISPATCH®
HOSPITAL CLEANER DISINFECTANT
TOWELS WITH BLEACH

Available in isolation carts

Broken or Unusable AccuChek Meters

All AccuChek meters and cases are repaired, replaced and maintained by the Point of Care Department.
If yours are broken,

Please Contact:

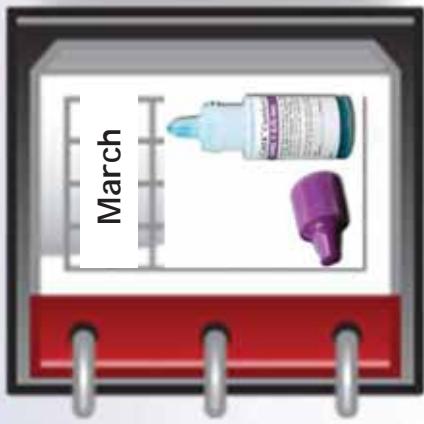
Kathy Huck at 865-5987 or

Sharlene Strahl at 782-7105



Annual AccuChek Competency includes:

QC Performance

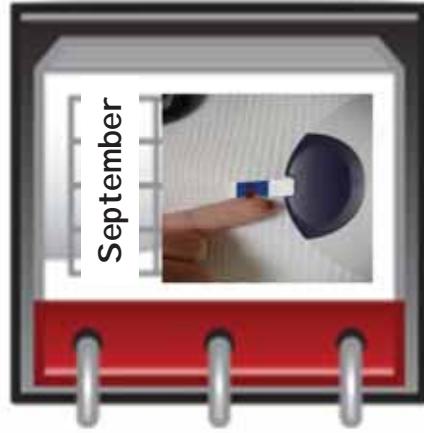


Testing personnel need to run both levels of QC between March 1st and March 31st to remain active in the database.

Operator lockout will occur on April 1st if QC is not done.

Hands-on Competency

Testing personnel need to complete hands-on competency once each year to meet regulatory requirements.



Failure to complete the Hands-on competency by Sept. 30th will result in operator lockout on Nov. 1st.

If Hands-on competency is missed, retraining is required to be reinstated in the database.

Policy and Procedure

?

Where can you find a copy of the bedside glucose testing policy titled:
"Blood Glucose by the AccuChek Inform"?



You can find the procedure on
"Cross"

use Keyword or
Document
Category:

POCT

Hands-on Times and Locations

See the list below for locations,
dates and times of check offs:

LOCATION	DATES	TIMES
MV Swisher	Aug 19 - Friday	0600 – 0900
	Aug 20 - Saturday	1800 - 2100
MV Swisher	Aug 22 - Monday	0600 – 0900
	Aug 23 - Tuesday	1400 - 1600 1800 - 2100
BG Auditorium	Sept 6 - Tuesday	0600 – 0900
	Sept 8 - Thursday	1400 - 1600
	Sept 9 - Friday	1800 - 2100
BG Auditorium	Sept 11 - Sunday	0600 – 0900 1800 - 2100
IN Auditorium C	Sept 13 - Tuesday	0600 – 0900
	Sept 15 - Thursday	1400 - 1600
	Sept 16 - Friday	1800 - 2100
IN Auditorium C	Sept 18 - Sunday	0600 – 0900 1800 - 2100



Remember, your competency is not complete until both components are done - the Quiz and the Hands-on check off

References:

- Centers for Disease Control. (2011, March 23). Infection Prevention during Blood Glucose Monitoring and Insulin Administration. Retrieved from <http://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html>
- Medical Device Update: Follow up to FDA's Letter to BGMS Manufacturers, Medical Device News and Insights, www.mdcii.com, 1/31/2011.
- AccuChek Inform Cleaning and Disinfecting Guide, Roche Diagnostics Corporation, Indianapolis, IN, doc# 324-28991-0905 and 324-32731-0906.
- AccuChek **Inform Operator's Manual**, Roche Diagnostics Corporation, Indianapolis, IN 2004-2010.
- **Totally Quality Management: AccuChek *Inform* System.** Roche Diagnostics Corporation, Indianapolis, IN 2007.
- Franciscan Alliance – St. Francis Health, Infection Control Policy for Hospital-Approved Detergent/Disinfectants, 7/15/2010.
- Clark, M.D., Steven A., Medical Director, Clinical Laboratories – June 2011
- Strahl, Sharlene, BS, MT (ASCP) SI, POC Coordinator, Point of Care Department - June 2011
- Huck, Kathy, MS, MT (ASCP) SBB, POC Coordinator, Point of Care Department – June 2011
- Staublin, Therese, Pharm.D., Pharmacy Department – June 2011
- Roembke, Claire, RN, Manager, Infection Control Department – August 2011